Sumo2/3/4 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Sumo2/3/4, Blocking Peptide
Full Product Name	Sumo2/3/4 Blocking Peptide
Product Gene Name	SUMO2 blocking peptide
Product Synonym Names	HSMT3; MGC117191; OTTHUMP00000115275; OTTHUMP00000115276; OTTHUMP00000115277; Sentrin 2; Small ubiquitin like modifier 2; Small ubiquitin related modifier 2; small ubiquitin-like modifier 3; small ubiquitin-related modifier 3; SMT3 homolog 1; SMT3 homolog 2; SMT3 suppressor of mif two 3 homolog 1; SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae); SMT3 suppressor of mif two 3 homolog 2; SMT3 suppressor of mif two 3 homolog 3 (S. cerevisiae); SMT3 suppressor of mif two 3 homolog 3; SMT3A; SMT3B; SMT3H1; SMT3H2; Sumo2; Sumo3; Ubiquitin like protein SMT3A; Ubiquitin like protein SMT3B; Small ubiquitin like modifier 3; Small ubiquitin related modifier 3; Small ubiquitin-related modifier 3; SMT3 homolog 1; SMT3 suppressor of mif two 3 homolog 1; SMT3 suppressor of mif two 3 homolog 3; SMT3, yeast, homolog 1; SMT3A; Smt3B; SMT3H1; SUMO-2; SUMO-3; sumo3; SUMO3_HUMAN; Ubiquitin like protein SMT3A; Ubiquitin-like protein SMT3B; dJ281H8.4; IDDM5; Small ubiquitin like modifier 4 protein; Small ubiquitin-like protein 4; Small ubiquitin-related modifier 4; SMT3 suppressor of mif two 3 homolog 2; SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae); SMT3H4; SUMO 4; SUMO-4; SUMO4; SUMO4_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Sumo2/3/4 peptide (MBS9627779) is used for blocking the activity of Sumo2/3/4 antibody (MBS9609067)
Molecular Weight	10,871 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (73163825..73179098, complement). Location: 17q25.1
OMIM	603042
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for SUMO2 blocking peptide	Blocking/Control
Related Product Information for SUMO2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of SUMO2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SUMO2 purchase	MBS9627779 is a blocking peptide targeting SUMO2. Also known as Sumo2/3/4 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUMO2. It may not necessarily be applicable to this product.

NCBI GI #	54792071
NCBI GeneID	6613
NCBI Accession #	NP_001005849.1
UniProt Primary Accession #	P61956
UniProt Secondary Accession #	P55855; Q32Q42; Q6IPZ6; Q96HK1; B2R4I2
UniProt Related Accession #	P61956
GenBank Nucleotide #	NM_001005849.1
NCBI Official Full Name	small ubiquitin-related modifier 2 isoform b
NCBI Official Synonym Full Names	small ubiquitin-like modifier 2
NCBI Official Symbol	SUMO2
NCBI Official Synonym Symbols	HSMT3; SMT3B; SUMO3; Smt3A; SMT3H2
UniProt Protein Name	Small ubiquitin-related modifier 2
UniProt Synonym Protein Names	HSMT3; SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3A
Protein Family	Small ubiquitin-related modifier
UniProt Gene Name	SUMO2
UniProt Synonym Gene Names	SMT3A; SMT3H2; SUMO-2; Smt3A
UniProt Entry Name	SUMO2_HUMAN
NCBI Protein Information	small ubiquitin-related modifier 2; sentrin 2; SMT3 homolog 2; ubiquitin-like protein SMT3A; ubiquitin-like protein SMT3B; SMT3 suppressor of mif two 3 homolog 2
NCBI Summary for SUMO2	This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last two amino acids of the carboxy-terminus have been cleaved off. Numerous pseudogenes have been reported for this gene. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

UniProt Comments for SUMO2	SUMO2: Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. Homotrimer (Potential). Crystal packing analysis suggests a possible trimeric assembly, of which the biological significance remains to be determined. Interacts with SAE2 and UBE2I. Covalently attached to a number of proteins. Interacts with PELP1. Interacts with USP25; the interaction sumoylates USP25. Broadly expressed. Belongs to the ubiquitin family. SUMO subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: nucleoplasm; PML body; nucleus Molecular Function: protein binding; ubiquitin protein ligase binding Biological Process: cellular protein metabolic process; protein sumoylation; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; post-translational protein modification
Research Articles on SUMO2	**1.** Data suggest that SUMO1 and SUMO2/3 are highly enriched in neck area of sperm; SUMOs are also associated with redundant nuclear envelope, flagella, and some sperm head regions.
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